

210

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: S. E. Alaska

11-5013

DESCRIPTIVE REPORT.

Topographic Sheet No. 2 3989

LOCALITY:

Lynn Canal and adjoining inlets

Chilkoot Inlet and

Chilkat Inlet

1932

CHIEF OF PARTY:

J. H. Hawley

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. 2 (1922)

LIMITS and EXTENT.

This sheet covers the Eastern and Western shores of Chilkoot and Chilkat Inlets from north latitude $59^{\circ}-02'$ to $59^{\circ}-10'$ and from west longitude $135^{\circ}-07'$ to $135^{\circ}-31'$. It also includes Kochu Is. and the two most northerly of the Chilkat Is. This sheet connects at the southern limit with sheet no. 1 (1922) and at the northern limit with sheet no. 3 (1922)

CONTROL and SURVEY METHODS

The following points of control were located by triangulation. Stations LEVEL, CLIMB, LAT, CLIFF, SEDUCTION, BAC, CHIL, TREE, ROOF, and DAVE. (N.H. Heck, 1921), and stations DUCK, HAN, CHU, KOCH, BOW, RAIN, SON, VID, and LAG (J.H. Hawley) 1922). The shore line was located by plane table traverse between triangulation stations. The signals on the opposite shore gave good checks by resection and three point problem so that there was no appreciable error of closure in any traverse between triangulation stations.

GENERAL DESCRIPTION of SHORE LINE

The eastern shore of Chilkoot Inlet from the southern to the northern limit of the work is of a broken cliff formation with a narrow ledge extending to the low water line. The cliff formation is broken at the mouth's of the larger streams by short sections of gravel and boulder beaches.

The western shore of Chilkoot Inlet from Δ CLIMB to the north entrance point of FLAT BAY is steep and rocky except for one small bight which is of a sand and gravel character. From the north entrance point of the bay ^{to} a point about one mile south of Δ LAT the shore line is a sand and gravel beach with an occasional short section of cliff formation. From this point to SEDUCTION PT. there is a low cliff with a narrow ledge

twenty to forty meters wide extending to the low water line.

The eastern shore of Chilkat Inlet from SEDUCTION PT. to the northern limit of the work is very irregular. Several of the small bays formed by the narrow peninsulas are good fair weather anchorages for small boats. The general character of this shore line is gravel and boulder beaches with an occasional short section of steep rocky shore. There are many off lying reefs and rocks along this coast which make inshore navigation by small boats dangerous.

The western shore of Chilkat Inlet from the northern limit of the work to a point about one mile south of ~~A~~ RAIN is a low broken cliff extending to the low water line in a narrow boulder beach. From this point to ~~A~~ ROOF the moraine of DAVIDSON glacier forms the shore line. It is a flat mud and gravel beach extending several hundred meters to the low water line. The flats back to the face of the glacier are thickly wooded. There are several small vegetable ranches on this land. From ~~A~~ ROOF to the southern limit of the work the shore is a narrow boulder beach broken by several short sections of cliff formation.

ISLANDS

The two most northerly islands of the Chilkat group are shown on this sheet. The southern one is about one mile long and $\frac{1}{4}$ mile wide. The shore is steep and rocky with a narrow boulder beach extending to the low water line. The island is about 200 feet high and thickly wooded. The smaller island is of the same general character as the larger one.

On the eastern shore is a white beacon (location ~~A~~ BAC.)

Kochu Is. located in Chilkat Inlet is a small narrow island less than 100 feet high and thickly wooded. The shore is steep and rocky with a narrow ledge extending to the low water line. A long narrow

ledge connected at low water to the island extends to the southward for about $\frac{1}{4}$ mile. The island is being used for a fox ranch at the present time.

LAND MARKS

SEDUCTION PT. the southern end of the peninsula between Chilkoot and Chilkat Inlets.

A WHITE BEACON on the eastern shore of the most northerly of the Chilkat Is. Location triangulation station BAC.

DAVIDSON GLACIER described in the Coast Pilot notes.

ANCHORAGES

There are no good anchorages within the limits of this sheet but several of the small bays may be used by small boats.

FLAT BAY described in the Coast Pilot.

The small bights north of \odot Let and \odot Nob also the one east of A DUCK are fair small boat anchorages for moderate weather.

INSHORE DANGERS

About one mile north and west of Seduction Pt. and about $\frac{1}{8}$ mile off shore is a rock that bares at $\frac{1}{2}$ tide (mentioned in coast pilot).

Off the points south of A HAN are several small reefs and rocks awash at $\frac{1}{2}$ tide. A reef extends out from the eastern shore towards A CHU and reaches nearly half way across the channel between Kochu Is. and the eastern shore of the inlet. North and west of \odot Let is a rock awash at $\frac{1}{4}$ tide.

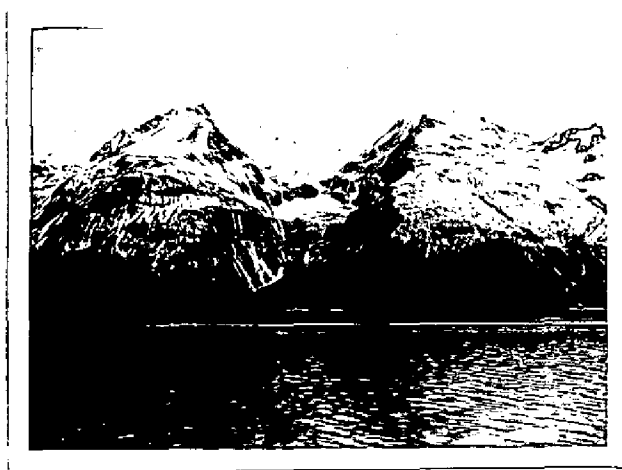
A reef extends to the southard of A CHU for about 300 meters.

Submitted by
Albert J. Hoshinson
aid.

Approved
J. H. Hawley
Comdr.



Davidson Glacier



Rainbow Glacier

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 4-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

October 31, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3989

Chilkoot and Chilkat Inlet, Alaska

Surveyed in 1922

Instructions dated February 13, 1922

Chief of Party, J. H. Hawley.

Surveyed and inked by A. J. Hoskinson.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the General Instructions. The lettering of topographic features should have been vertical.
3. The plan and extent of the survey satisfy the specific instructions.
4. The junctions with the adjoining surveys are satisfactory.
5. No further surveying is required within the limits of the sheet.
6. The character and scope of the surveying and drafting are excellent.
7. Reviewed by E. P. Ellis, October, 1924.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3989

State . S. E. Alaska

General locality . Lynn Canal

Locality . Chilkoot Inlet, and Chilkat Inlet

Chief of party . J. H. Hawley

Surveyed by Albert J. Hoskinson

Date of survey 1922

Scale 1 / 20 000

Heights in feet above mean sea level

Contour interval 100 . . feet.

Inked by Albert J. Hoskinson Lettered by A. J. H.

Records accompanying sheet (check those forwarded): Photographs, ✓

✓ Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: